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CLAIMS

 (original) A method for making molded optical elements on selected areas on a surface of a substrate comprising:

providing a first and second stamper each comprising a mold, said first and said second stamper being separated by a gap;

coating said molds with a locally dispensed optically curable polymer;

bringing said selected area on said surface of said substrate into contact
with said coated molds;

exposing said surface of said substrate in contact with said coated molds to light; and

separating said substrate from said molds to leave said molded optical elements on said selected areas on said surface of said substrate.

- 2. (previously amended) The method of Claim 1 wherein said first and said second stampers are coated with a release layer.
- (original) The method of Claim 1 wherein said locally dispensed optically curable polymer is mechanically dispensed onto said molds.
- 4. (original) The method of Claim 1 wherein said locally dispensed optically curable polymer is dispensed by bringing said molds into contact with a reservoir of optically curable polymer.

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- (original) The method of Claim 1 further comprising placing said coated molds into a vacuum chamber for degassing.
- 6. (original) The method of Claim 1 wherein said substrate is substantially transparent to light.
- 7. (original) The method of Claim 1 wherein said substrate is substantially reflective to light.
- 8. (previously amended) The method of Claim 1 wherein said surface of said substrate is prepared to enhance adhesion of said optically curable polymer when said optically curable polymer is cured.
- 9. (original) The method of Claim 1 wherein an alignment mark is patterned on said surface of said substrate.
- 10. (original) The method of Claim 1 wherein thin metal elements are patterned on said surface of said substrate for optical functions.
- 11. (original) The method of Claim 1 wherein the dimensions of said gap are determined by the separation distance between said substrate and said molds when said optically curable polymer begins to flow.

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12. (original) The method of Claim 1 wherein providing said first stamper comprises:

coating a stamper blank with said locally dispensed optically curable polymer;

bringing said master into contact with said locally coated stamper blank;
exposing said locally coated stamper blank in contact with said master to light;
and

separating said master from said locally coated stamper blank to create said first stamper.

- 13. (original) The method of Claim 12 wherein said master is coated with a release layer.
- 14. (previously amended) The method of Claim 12 wherein said master is made from a material chosen from the group consisting of silicon, metal, glass, and plastic.
- 15. (original) The method of Claim 12 wherein said master has an alignment feature which is transferred to said first stamper.

stamper.

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coating a stamper blank with a blanket layer of optically curable polymer;

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16. (previously amended) The method of Claim 1 wherein providing said first stamper comprises:

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providing a master; bringing said coated stamper blank into contact with said master; exposing said coated stamper blank in contact with said master to light; separating said coated stamper blank from said master; and removing excess material from said coated stamper blank to create said first

- 17. (original) The method of Claim 16 wherein said master is coated with a release layer.
- (original) The method of Claim 16 wherein said excess material is removed by chemical etch.

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19. (original) The method of Claim 1 wherein providing said first stamper comprises:

providing a master comprising a cavity wherein optical element shapes are disposed;

overfilling said cavity with said locally dispensed optically curable polymer;
bringing a stamper blank into contact with said optically curable polymer;
exposing said stamper blank and said optically curable polymer to light; and
separating said master from said stamper blank leaving said optically curable
polymer attached to said stamper blank to create said first stamper.

- 20. (original) The method of Claim 19 wherein said cavity of said master is coated with a release layer.
 - 21. (cancelled)
 - 22. (cancelled)